

INTERNATIONAL SEARCH REPORT

PCT/GB2004/004722

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L29/778 H01L29/737 H01L27/082 H01L27/06 H01L29/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/080332 A1 (PHILLIPS TIMOTHY J) 1 May 2003 (2003-05-01) cited in the application	1-6, 9, 12-15
Y	paragraphs '0023!', '0040!; claims 21-23; figure 1	7, 8, 10, 11
Y	WO 03/081674 A (PHILLIPS TIMOTHY JONATHAN ; QINETIQ LTD (GB)) 2 October 2003 (2003-10-02) cited in the application abstract; figures 1-9	7, 8
Y	WO 01/93337 A (PHILLIPS TIMOTHY JONATHAN ; QINETIQ LTD (GB)) 6 December 2001 (2001-12-06) cited in the application abstract; figures 1, 8, 9	10, 11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

21 January 2005

Date of mailing of the international search report

31/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LOTT J A ET AL: "STRAINED P-CHANNEL INGASB/ALGASB MODULATION-DOPED FIELD-EFFECT TRANSISTORS" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 28, no. 15, 16 July 1992 (1992-07-16), pages 1459-1460, XP000307703 ISSN: 0013-5194 abstract; figure 1</p>	1-6, 13-15
X	<p>US 5 298 441 A (GORONKIN HERBERT ET AL) 29 March 1994 (1994-03-29) column 5, line 6 - column 6, line 54; figure 4</p>	1-6,15
X	<p>PATENT ABSTRACTS OF JAPAN vol. 015, no. 265 (E-1086), 5 July 1991 (1991-07-05) & JP 03 088369 A (YOKOGAWA ELECTRIC CORP), 12 April 1991 (1991-04-12) abstract</p>	1,10,11
X	<p>PATENT ABSTRACTS OF JAPAN vol. 013, no. 184 (E-751), 28 April 1989 (1989-04-28) & JP 01 009656 A (NEC CORP), 12 January 1989 (1989-01-12) abstract</p>	1,10
X	<p>EP 0 241 988 A (PHILIPS ELECTRONICS UK LTD ; PHILIPS NV (NL)) 21 October 1987 (1987-10-21) column 5, line 10 - column 5, line 18; figure 1</p>	1-5,15
X	<p>PATENT ABSTRACTS OF JAPAN vol. 015, no. 444 (E-1132), 12 November 1991 (1991-11-12) & JP 03 187269 A (HITACHI LTD), 15 August 1991 (1991-08-15) abstract</p>	1-4,10, 11,15
X	<p>US 5 241 197 A (MURAKAMI EIICHI ET AL) 31 August 1993 (1993-08-31) abstract; figures 4,14</p>	1,10-14
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CUI D ET AL: "TECHNOLOGY AND FIRST ELECTRICAL CHARACTERISTICS OF COMPLEMENTARY NPN AND PNP INALAS/INGAAS HETEROJUNCTION BIPOLAR TRANSISTORS" JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 41, no. 2B, PART 1, February 2002 (2002-02), pages 1124-1130, XP001192196 ISSN: 0021-4922 abstract	1-15
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 268 (E-638), 27 July 1988 (1988-07-27) & JP 63 051678 A (NEC CORP), 4 March 1988 (1988-03-04) abstract	1-15

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Information on patent family members

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JP 63051678 A	04-03-1988	NONE	

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